This report contains data through the week ending03/02/2013 (MMWR week 09).



Overview of Influenza Surveillance: Surveillance for the 2012-2013 influenza season officially began on September 30, 2012. The Utah Department of Health publishes a weekly report throughout the active influenza season that synthesizes data from a variety of sources to give the most complete and up-to-date picture of influenza activity in the state of Utah. Data in this report should be considered provisional, and may change as more complete reports are recieved.

Influenza-like Illness (ILI): The U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet) is a national system that conducts surveillance for influenza-like illness (ILI) in outpatient healthcare facilities. ILINet providers report weekly the total number of patients seen for any reason and the number of patients seen with ILI (defined as a fever ≥ 100° F and a cough or sore throat). These data are used to determine the amount of ILI circulating in the community, as well as provide insight into regional differences in ILI activity. Currently, more than 50 facilities throughout Utah participate in ILINet.

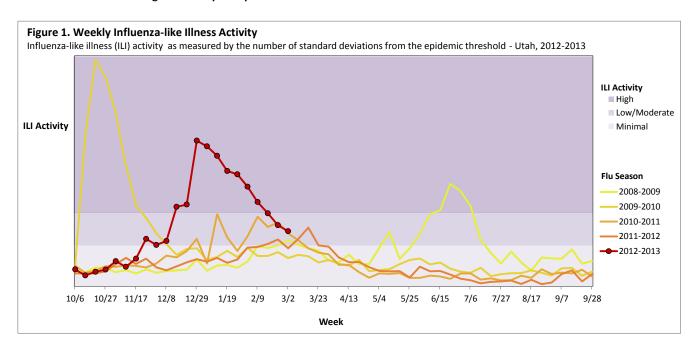


Table 1. Influenza-like Illness (ILI) Activity Levels by Health District - Utah, Current Week

Ticaltii District	otali, carrelle week
Health District	ILI Activity
Bear River	Minimal
Central	Minimal
Davis	Minimal
Salt Lake	Low/Moderate
Southeastern	No Data
Southwest	Low/Moderate
Summit	Minimal
Tooele	Minimal
TriCounty	No Data
Utah	Low/Moderate
Wasatch	Minimal
Weber-Morgan	Minimal
State	Low/Moderate

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Influenza Hospitalizations: Influenza hospitalizations are a reportable condition in Utah. A person meets the case definition for an influenza hospitalization if they are hospitalized for any length of time and have an influenza positive serology, DFA, PCR, or culture test (confirmed case) or a positive rapid influenza diagnostic test (probable case). Public health in Utah gathers a variety of data on influenza hospitalizations including clinical features, course of illness, risk and protective factors, and influenza type and subtype. Data from influenza hospitalizations allows public health in Utah to better understand subgroups of the Utah population that are most severely effected by influenza and help to guide prevention messages and interventions.

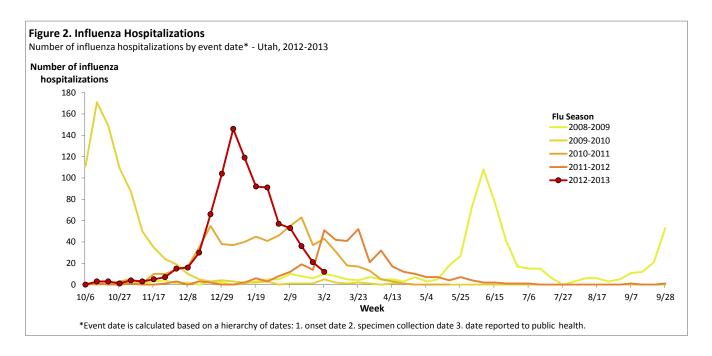


Table 2. Influenza Hospitalizations by Case Status - Utah

	Current Week Total % of Cases		Season To Date		
Case Status			Total % of Cases		
Confirmed	11	91.7	833	94.2	
Probable	1	8.3	51	5.8	
Total	12	100.0	884	100.0	

Table 3. Influenza Hospitalizations by Health District - Utah

Health District	Current Week	Season To Date
Bear River	0	44
Central	1	37
Davis	1	69
Salt Lake	3	399
Southeastern	0	3
Southwest	4	96
Summit	0	15
Tooele	0	4
TriCounty	0	13
Utah	2	137
Wasatch	0	3
Weber-Morgan	1	64
State	12	884

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Table 4. Influenza Hospitalizations by Age Group - Utah, Season To Date

Age Group	Total Cases	% of Cases	Rate*
0-4	178	20.1	65.77
5-24	118	13.3	12.47
25-49	111	12.6	11.19
50-64	121	13.7	30.21
65+	356	40.3	144.14
Total	884	100.0	30.95

^{*}Rate is calculated as the number of cases per 100,000 population

Table 5. Influenza Hospitalizations by Sex and Race - Utah, Season To Date

Variab	le	Num. of Cases	% of Cases	% in Utah Pop p va	lue*
Sex	Male	430	48.6	50.3 0.3	3237
	Female	454	51.4	49.7 0.3	3237
	Unknown	0	0.0	NA	
Race	White, Not Hispanic	713	80.7	82.0 0.2	2841
	Hispanic	107	12.1	11.6 0.6	5311
	Native Hawaiian/Pacific Islander	34	3.8	0.7 < 0.0	0001
	Black/African American	10	1.1	0.9 0.5	5393
	American Indian	2	0.2	1.1 0.0	0109
	Asian	18	2.0	1.9 0.7	7135
	Unknown	0	0.0	NA	

^{*}If a p value is ≤ 0.05, there is a significant difference between the percentage seen in influenza hospitalizations and the general Utah population.

Table 6. Summary Data for Influenza Hospitalizations - Utah, Season To Date

Yes		No		Unkno	wn
Total %	of Cases	Total %	of Cases	Total %	of Cases
125	14.1	664	75.1	95	10.7
49	5.5	744	84.2	91	10.3
27	3.1	758	85.7	99	11.2
94	10.6	688	77.8	102	11.5
6	0.7	495	56.0	383	43.3
28	3.2	796	90.0	60	6.8
264	29.9	526	59.5	94	10.6
17	1.9	770	87.1	97	11.0
81	9.2	707	80.0	96	10.9
211	23.9	579	65.5	94	10.6
252	28.5	540	61.1	92	10.4
82	9.3	703	79.5	99	11.2
94	10.6	688	77.8	102	11.5
29	3.3	760	86.0	95	10.7
12	1.4	774	87.6	98	11.1
112	19.1	182	31.0	293	49.9
22	3.7	272	46.3	293	49.9
808	91.4	76	8.6	0	0.0
272	30.8	339	38.3	273	30.9
	Total % 125 49 27 94 6 28 264 17 81 211 252 82 94 29 12 112 22 808	49 5.5 27 3.1 94 10.6 6 0.7 28 3.2 264 29.9 17 1.9 81 9.2 211 23.9 252 28.5 82 9.3 94 10.6 29 3.3 12 1.4 112 19.1 22 3.7 808 91.4	Total % of Cases Total % 125 14.1 664 49 5.5 744 27 3.1 758 94 10.6 688 6 0.7 495 28 3.2 796 264 29.9 526 17 1.9 770 81 9.2 707 211 23.9 579 252 28.5 540 82 9.3 703 94 10.6 688 29 3.3 760 12 1.4 774 112 19.1 182 22 3.7 272 808 91.4 76	Total % of Cases Total % of Cases 125 14.1 664 75.1 49 5.5 744 84.2 27 3.1 758 85.7 94 10.6 688 77.8 6 0.7 495 56.0 28 3.2 796 90.0 264 29.9 526 59.5 17 1.9 770 87.1 81 9.2 707 80.0 211 23.9 579 65.5 252 28.5 540 61.1 82 9.3 703 79.5 94 10.6 688 77.8 29 3.3 760 86.0 12 1.4 774 87.6 112 19.1 182 31.0 22 3.7 272 46.3 808 91.4 76 8.6	Total % of Cases Total % of Cases Total % 125 14.1 664 75.1 95 49 5.5 744 84.2 91 27 3.1 758 85.7 99 94 10.6 688 77.8 102 6 0.7 495 56.0 383 28 3.2 796 90.0 60 264 29.9 526 59.5 94 17 1.9 770 87.1 97 81 9.2 707 80.0 96 211 23.9 579 65.5 94 252 28.5 540 61.1 92 82 9.3 703 79.5 99 94 10.6 688 77.8 102 29 3.3 760 86.0 95 12 1.4 774 87.6 98 112 19.1 182

^{*}Obesity and morbid obesity is not considered for individuals under 18 years or pregnant women. Thus total counts will not equal the total number of influenza-associated hospitalizations

[†]Risk factors for influenza include: persons < 5 years, persons ≥ 65 years, pregnant women, and persons with a chronic medical condition.

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Student Absenteeism: School-age children are at high risk for respiratory virus infections, including influenza. Aggregate, all-cause absenteeism data is collected weekly from over 350 schools throughout Utah. These data are analyzed to identify elevated absenteeism rates that could indicate the circulation of influenza in school-age children.

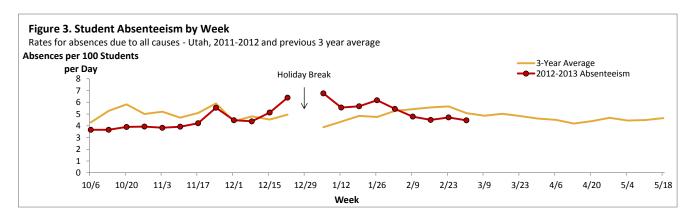
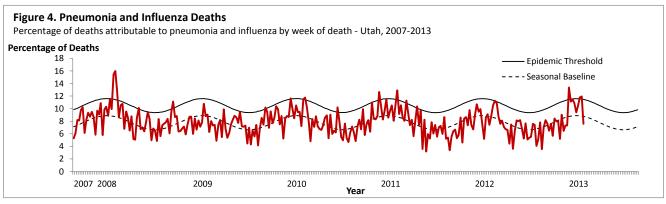


Table 7. Weekly Student Absenteeism - Utah, Current Week

Health District	Absences per 100
Health District	students/day
Bear River	4.0
Central	7.5
Davis	4.1
Salt Lake	4.2
Southeast	6.0
Southwest	5.4
Summit	5.8
Tooele	5.4
TriCounty	5.0
Utah	2.2
Wasatch	4.3
Weber-Morgan	4.9
State	4.5

Pneumonia and Influenza Deaths: Each week the total number of death certificates received and the number of those for which pneumonia or influenza was listed as an underlying or contributing cause of death is collected. The percentage of deaths due to pneumonia and influenza are compared with a seasonal baseline and epidemic threshold value calculated for each week. These data are used to monitor the severity of influenza illness in the community.



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Laboratory Surveillance: The Unified State Laboratory: Public Health recieves specimens from all over the state for comprehensive influenza testing. All specimens are tested to determine influenza type and subtype. A portion of specimens are also sent to the Centers for Disease Control and Prevention for additional testing, including gene sequencing, antiviral resistance testing and antigenic characterization.

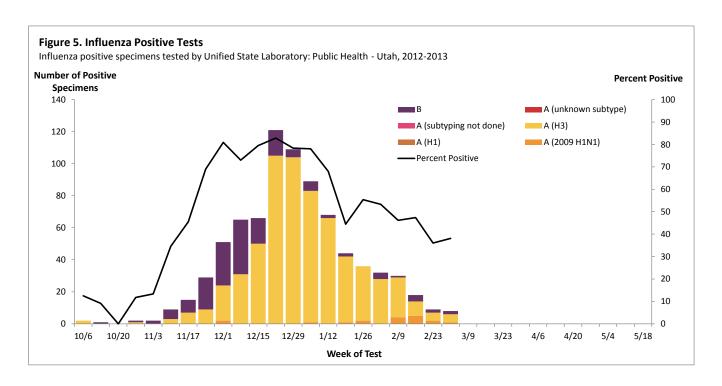


Table 8. Unified State Laboratory: Public Health Influenza Testing Data

	Current Week		Season To	o Date			
	Total	Percent	Total	Percent			
Specimens tested	21		1,276				
Positive specimens	8	38.1	806	63.2			
Positive	Positive Specimens by Type/Subtype						
Influenza A	6	75.0	647	80.3			
A (2009 H1N1)	1	16.7	18	2.8			
A (H1)	0	0.0	0	0.0			
A (H3)	5	83.3	629	97.2			
A (subtyping not performed)	0	0.0	0	0.0			
A (unable to subtype)	0	0.0	0	0.0			
Influenza B	2	25.0	159	19.7			